

Questionnaire manual: Power plant

Questionnaire code: 10242022

Submitted in: 1.02.2022, data about 2021

Periodicity: Annual

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Statistics Estonia guarantees the full protection of data submitted.

eSTAT (<https://estat.stat.ee/>) is for data submission.

Please make sure that you enter data in the correct cell. If you enter alphabetical characters in a number field, a corresponding error message is displayed. In the case of some fields, logic (arithmetic) checks have been applied to prevent data entry mistakes. If there is a conflict in the entered data or they conflict with pre-filled data, an error message appears when the table is checked. In the case of errors, review the data carefully and make corrections.

After correcting the data, save changes and check the questionnaire again. If there are no more mistakes, confirm and submit the data by clicking "Confirm" on the last page of the questionnaire. You will be displayed a message that the data have been submitted successfully. If you have any questions, please contact Statistics Estonia's customer service either by phone at +372 625 9300 (Mon–Thu 8:30–16:30, Fri 8:30–15:30) or by e-mail at klienditugi@stat.ee.

Accuracy of the data ensures truthfulness of statistical information.

DATA COLLECTED WITH THE QUESTIONNAIRE

Table 1. TYPE OF ELECTRICITY GENERATION

The questionnaire is partly filled with data from previous year

Please specify pre-filled fields where necessary. Some fields and tables, and pages are displayed by type of power generation.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Type of power plant *	ELJ_1_1		elektrijaam_4L	

Table 1.1. TOTAL NUMBER OF TURBINES

In economic activities **D35112-D35113** you need not fill in the table.

Data from previous year are displayed in the table. Please double-check the pre-filled fields and correct where necessary.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Back pressure steam turbine – number of turbines in cogeneration plants	ELJL_11_2	Number of installed back pressure turbine in combined heat and power plants.	Positive integer	
2 / 1	Steam condensing turbine – number of turbines in cogeneration plants	ELJL_21_2	Number of steam condensing turbines in combined heat and power plants.	Positive integer	
3 / 1	Internal combustion engine – number of turbines in cogeneration plant	ELJL_31_2	Number of installed internal combustion engine in combined heat and power plants.	Positive integer	

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Table 2. CAPACITY, MW

Values from previous period are displayed in the table. Please double-check the prefilled fields and correct where necessary. For very small capacities enter 0.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
11 / 1	Power plant – total installed electrical capacity at the end of the year *	ELJ_3_1 1_1	Installed maximum electrical capacity of power plant (MW, integers), as at 31 December.	Positive real number (0,3)	
11 / 2	Power plant – total installed thermal capacity at the end of the year *	ELJ_3_1 1_2	Installed maximum thermal capacity of power plant (MW, integers), as at 31 December.	Positive real number (0,3)	D35112- D35113
12 / 1	Power plant – installed electrical capacity with cogeneration at the end of the year *	ELJ_3_1 2_1	Installed maximum electrical capacity of power plant in combined heat and power generation (MW, integers), as at 31 December.	Positive real number (0,3)	D35112- D35113
12 / 2	Power plant – installed thermal capacity with cogeneration at the end of the year *	ELJ_3_1 2_2	Installed maximum thermal capacity of power plant in combined heat and power generation (MW, integers), as at 31 December.	Positive real number (0,3)	D35112- D35113
12_3 / 1	Back pressure steam turbine – electrical capacity in cogeneration plants	ELJL_11 _3	Maximum electricity output capacity of back pressure turbines in combined heat and power plants (MW, two decimal places).	Positive real number (0,3)	D35112- D35113
12_3 / 2	Back pressure steam turbine – thermal capacity in cogeneration plants	ELJL_11 _4	Maximum thermal capacity of back pressure turbines in combined heat and power plants (MW, two decimal places) if produced heat is consumed in technological processes of the manufacturing enterprise or transmitted into heat networks.	Positive real number (0,3)	D35112- D35113
12_2 / 1	Steam condensing turbine – electrical capacity in cogeneration plants	ELJL_21 _3	Maximum electricity output capacity of steam condensing turbines in combined heat and power plants (MW, two decimal places).	Positive real number (0,3)	D35112- D35113
12_2 / 2	Steam condensing turbine – thermal capacity in cogeneration plants	ELJL_21 _4	Maximum thermal capacity of steam condensing turbines in combined heat and power plants (MW, two decimal places) if produced heat is consumed in technological processes of the manufacturing enterprise or is transmitted into heat networks.	Positive real number (0,3)	D35112- D35113
12_1 / 1	Internal combustion engine – electrical capacity in cogeneration plant	ELJL_31 _3	Maximum electricity output capacity of internal combustion engines in combined heat and power plants (MW, two decimal places).	Positive real number (0,3)	D35112- D35113
12_1 / 2	Internal combustion engine – thermal capacity in cogeneration plant	ELJL_31 _4	Maximum thermal capacity of internal combustion engines in combined heat and power plants (MW, two decimal places) if produced heat is consumed in technological processes of the manufacturing enterprise or transmitted into heat networks.	Positive real number (0,3)	D35112- D35113
14 / 1	Power plant – total electrical capacity (net) at the end of the year *	ELJ_3_1 4_1	Available electrical capacity of power plant (MW, integers), as at 31 December, less capacity for own use by power plant and for losses in transformers.	Positive real number (0,3)	
14 / 2	Power plant – total thermal capacity (net) at the end of the year *	ELJ_3_1 4_2	Available electrical capacity of power plant (MW, integers), as at 31 December, less capacity for own use by power plant and for losses in transformers.	Positive real number (0,3)	D35112- D35113
15 / 1	Power plant – electrical capacity	ELJ_3_1 5_1	Available electrical capacity of power plant in cogeneration (MW, integers), as at 31 December, less capacity for own	Positive real number	D35112- D35113

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	with cogeneration (net) at the end of the year *		use by power plant and for losses in transformers.	(0,3)	
15 / 2	Power plant – thermal capacity with cogeneration (net) at the end of the year *	ELJ_3_1 5_2	Available thermal capacity of power plant in combined heat and power generation (MW, integers), as at 31 December, less capacity for own use by the power plant and for losses in transformers.	Positive real number (0,3)	D35112-D35113
16 / 1	Power plant – annual peak load of electrical capacity (net) *	ELJ_3_1 6_1	Maximum load of power installations (MW, integers) with a year.	Positive real number (0,3)	
17 / 1	Power plant – available electrical capacity (net) during peak load *	ELJ_3_1 7_1	Maximum available capacity (MW) of power installations during the peak load.	Positive real number (0,3)	
18 / 1	Power plant – date of peak load of electrical capacity (dd.mm.yyyy)	ELJ_3_1 8_1	Date of peak load (dd.mm.yyyy).	Date	D35112-D35113
181 / 1	Power plant – time of peak load of electrical capacity (hh.mm)	ELJ_3_1 81_1	Time of peak load (hh.mm).	Text	D35112-D35113

Table 3. CONSUMPTION OF FUELS AND PRODUCTION OF ENERGY

In economic activities **D35112-D35113** you need not fill in the table.

Consumption of fuel and production of energy – production of electricity and heat by type of fuel consumed for that purpose. In case of missing values enter 0.

Please double-check the prefilled fields and correct where necessary. To amend the prefilled data/row, click on the number of respective row in the first column – the data correction window opens. If heat quantities are not measured, they can be calculated by multiplying the fuel quantities by calorific value (see <https://www.stat.ee/dokumendid/2017087>) and efficiency of the boiler.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / A	Type of generation equipment *	ELJ_1_2		Energia genereerimiseadmed	
1 / C	Type of fuel *	EN_4_1_19		Kütuste loetelu 2020	
1 / 1	Average calorific value of fuels *	ELJ_4_1		Positive real number (0,1)	
1 / 2	Total quantity of fuels consumed for electricity generation *	ELJ_4_2	Quantity of fuels consumed at power plants for electricity generation.	Positive integer	
1 / 3	Quantity of fuels consumed for electricity generation in cogeneration *	ELJ_4_3	Fuel consumed at the power plant for electricity generation in combined heat and power generation.	Positive integer	
1 / 4	Total quantity of fuels consumed for heat generation *	ELJ_4_4	Fuel consumed at the power plant for producing heat.	Positive integer	
1 / 5	Quantity of fuels consumed for heat generation in cogeneration *	ELJ_4_5	Fuel consumed at the power plant for producing heat in combined heat and power generation.	Positive integer	
1 / 6	Electricity: total production –	ELJ_4_3 9_5	Gross electricity generation of the power plant, measured at the outlet terminals of the main generators.	Positive integer	

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	quantity *				
1 / 7	Quantity of electricity produced in cogeneration *	ELJ_4_7	Gross production of electricity in power plant in cogeneration process.	Positive integer	
1 / 8	Total production of thermal energy *	ELJ_4_8	Total quantity of heat produced at the power plant.	Positive integer	
1 / 9	Quantity of thermal energy produced in cogeneration *	ELJ_4_9	Gross production of heat in power plant in cogeneration process.	Positive integer	
1 / 10	Quantity of sold heat from combined heat and power generation *	ELJ_4_10	Quantity of heat produced in power plant in combined heat and power generation process, delivered to third party.	Positive integer	

Table 4. TOTAL PRODUCTION OF ENERGY

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Total production of hydro energy	EN_M_11_1	Total quantity of hydro energy production, incl. own consumption by power plant MWh (integers).	Positive integer	
2 / 1	Total production of wind energy	EN_M_12_1	Total quantity of wind energy production, incl. own consumption by power plant, MWh (integers).	Positive integer	

Table NET PRODUCTION OF ELECTRICITY

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
1 / 1	Net production of electricity *	ELJ_5_3	Net generation of electricity – gross electricity generation less the energy absorbed by the generating auxiliaries and the losses in the main generator transformers.	Positive integer	

Table 6. TIME SPENT ON FILLING OUT THE QUESTIONNAIRE (incl. for preparing the data)

Please estimate how much time you spent on filling out the questionnaire (incl. time spent on reading the instructions, collecting and preparing data). Record the total time spent by all employees.

Row code/ column code	Name of variable * - mandatory	Code of variable	Explanation	Type of data (number of decimals) or list/ classification name	You need not fill in the value: period, economic activity
/	Number of hours spent on completing the questionnaire and collecting and preparing the necessary data	TAITMIS EAEGTU NDI	Number of hours spent by all employees on completing the questionnaire. The time spent on completing the questionnaire includes the time spent on reviewing instructions, collecting and preparing the necessary data.	Positive integer	
/	Number of minutes spent on completing the questionnaire and collecting and	TAITMIS EAEGMI NUTIT	Number of minutes spent by all employees on completing the questionnaire. The time spent on completing the questionnaire includes the time spent on reviewing instructions, collecting and preparing data. Permitted value range 0–59.	Positive integer	

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	preparing the necessary data			
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LISTS / CLASSIFICATIONS

Name of the list/classification: **Energia genereerimisseadmed**

Item code	Item name	Unit of measurement	Clarification
1	Backpressure turbine		
2	Steam condensing turbine		
3	Internal combustion engine		
9	Other generation		

Name of the list/classification: **Kütuste loetelu 2020**

Item code	Item name	Unit of measurement	Clarification
1020	Coal, tonne (t)	tonne	
1070	Coke, tonne (t)	tonne	
1111	Fuelwood, cubic metre (m ³)	MTQ	1 stacked cubic metre (cbm) is approximately 0.7 solid cubic metres.
1112	Wood chips, cubic metre (m ³)	MTQ	Wood chips are produced from logging waste, roundwood, logs, shrubs and bushes, stumps or wood industry residues. 1 stacked cubic metre is approximately 0.4 solid cubic metres.
1113	Wood pellets, tonne (t)	tonne	Sticks or cubes with a diameter of 6-12 mm, agglomerated from dried sawdust by compression at temperature up to 80°C.
1114	Briquette, tonne (t)	tonne	Blocks of ground and dried sawdust compressed at appropriate temperature.
1115	Wood waste, cubic metre (m ³)	MTQ	1 stacked cubic metre is approximately 0.4 solid cubic metres, 1 stacked cubic metre of sawdust is approximately 0.25 solid cubic metres.
1116	Forestry waste, cubic metre (m ³)	MTQ	
1117	Energy forest, cubic metre (m ³)	MTQ	
1131	Milled peat, tonne (t)	tonne	1 cubic metre is approximately 0.3 tonnes.
1132	Sod peat, tonne (t)	tonne	1 cubic metre is approximately 0.4 tonnes.
1133	Peat briquette, tonne (t)	tonne	
1140	Municipal waste, tonne (t)	tonne	Waste originating from households, commerce and trade, municipal services and elsewhere, that is similar by composition and nature. Is burned for energy generation, prior to which hazardous waste is removed.
1150	Industrial waste, tonne (t)	tonne	Non-hazardous waste originating from production processes that is burned for energy generation.
1171	Cereal, tonne (t)	tonne	Agricultural raw material/fuel.
1172	Straw, tonne (t)	tonne	Agricultural raw material/fuel.
1173	Dung, tonne (t)	tonne	Agricultural raw material/fuel.
1174	Rape waste, tonne (t)	tonne	Agricultural raw material/fuel.
1175	Bone meal, tonne (t)	tonne	Agricultural raw material/fuel.
1176	Animal fat (animal waste), tonne (t)	tonne	Agricultural raw material/fuel.
1190	Refuse derived fuel, tonne (t)	tonne	Processed waste to be used as fuel (RDF) Write the type of fuel under "Comment about period".
1200	Oil shale, tonne (t)	tonne	
1210	Other solid fuels		Write the type of fuel and unit of measurement under "Comment about period"
1300	Rubber granules, tonne (t)	tonne	
2030	Heavy fuel oil, tonne (t)	tonne	Residual fuels and other fuel oils among the heavy distillates.
2040	Light fuel oil, tonne (t)	tonne	1000 litres is approximately 0.9 tonnes.
2051	Diesel, tonne (t)	tonne	
2052	Biodiesel, tonne (t)	tonne	A methyl-ester produced from vegetable or animal oil, of diesel quality, pure biodiesel B100.
2070	Jet fuel, tonne (t)	tonne	Jet fuel (aviation kerosene) used in air transport.
2080	Motor gasoline, tonne (t)	tonne	1000 litres are approximately 0.75 tonnes.
2090	Aviation gasoline, tonne (t)	tonne	
2110	Shale oil (heavy fraction), tonne (t)	tonne	
2120	Shale oil (light fraction), tonne (t)	tonne	
2150	Black liquor, tonne (t)	tonne	

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2190	Refined oils and lubricants, tonne (t)	tonne	
2220	Bitumen, tonne (t)	tonne	
2231	Bioethanol, tonne (t)	tonne	Ethanol produced from biomass and /or the biodegradable fraction of waste.
2251	Other liquid fuels		Write the type of fuel and unit of measurement under "Comment about period"
3010	Natural gas, thousand cubic metres (1000 m ³)	MQM	
3011	Liquified natural gas (LNG), tonne (t)	tonne	
3012	Compressed natural gas (CNG), tonne (t)	tonne	
3030	Liquified gas (LPG), tonne (t)	tonne	Propane and butane, or a mixture of the two.
3090	Green gas (biomethane)	MQM	Gas consisting of methane and carbon dioxide, produced as a result of anaerobic fermentation.
3110	Shale oil gas, thousand cubic metres (1000 m ³)	MQM	
3120	Coke oven gas, thousand cubic metres (1000 m ³)	MQM	
3150	Sewage sludge gas, thousand cubic metres (1000 m ³)	MQM	
3160	Landfill gas, thousand cubic metres (1000 m ³)	MQM	
3170	Other gases		Write the type of fuel and unit of measurement under "Comment about period"

Name of the list/classification: **elektrijaam_4L**

Item code	Item name	Unit of measurement	Clarification
167	Combined heat and power (CHP) plant		
168	Hydro-power plant		
169	Wind- power plant		
170	Other type of electricity generation		